

LONG-TERM SURVIVAL FOLLOWING SAPHENOUS VEIN GRAFT VERSUS NATIVE VESSEL PERCUTANEOUS CORONARY INTERVENTIONS IN THE CONTEMPORARY DRUG-ELUTING STENT ERA

i2 Poster Contributions

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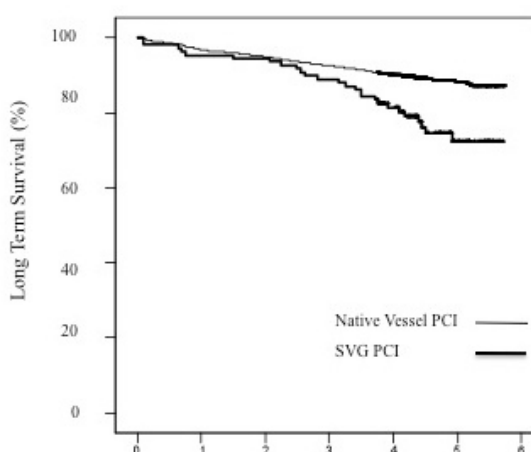
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Background: Long-term clinical outcomes following saphenous vein graft (SVG) percutaneous intervention (PCI) in the era of drug-eluting stents (DES) have not been well characterized. We compared in-hospital and long-term outcomes in patients who underwent SVG versus native vessel PCI.

Methods: Using the 2004/2005 Cornell Angioplasty Registry, we evaluated 2,455 consecutive patients undergoing urgent or elective PCI. Mean follow-up was 4.4 ± 1.1 years.

Results: Of the 2,455 study patients, 109 patients (4.4%) underwent SVG PCI, and 2,346 (95.6%) underwent native vessel PCI. The incidence of in-hospital death (1.8% vs. 0.2%, $p=0.026$) was greater in the SVG PCI group, whereas post-procedural MI (8.3% vs. 6.7% $p=0.557$), and MACE rates (10.1% vs. 6.9% $p=0.247$) were similar in the SVG versus native vessel PCI groups, respectively. The incidence of 1-year mortality (4.6% vs. 3.2%, $p=0.397$) was similar, but long-term Kaplan-Meier mortality (23.9% vs. 11.2%, $p=0.0001$) was significantly higher in the SVG versus native vessel PCI group, respectively (Figure). After adjustment with multivariate Cox regression analysis, SVG PCI was associated with a trend towards a higher long-term mortality (HR 1.49, 95% CI 0.88-2.53, $p=0.141$).



Conclusion: SVG PCI is associated with a higher in-hospital mortality and higher 4-year all-cause mortality. In our study this difference in long-term survival was mainly driven by a higher rate of comorbidities in the population that underwent SVG PCI.